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**1992**

# **Census of Manufactures**

MC92-I-20A

**INDUSTRY SERIES**

## **Meat Products**

**Industries 2011, 2013, and 2015**

Issued June 1995



**U.S. Department of Commerce**  
Ronald H. Brown, Secretary  
David J. Barram, Deputy Secretary

**Economics and Statistics Administration**  
Everett M. Ehrlich, Under Secretary  
for Economic Affairs

**BUREAU OF THE CENSUS**  
Martha Farnsworth Riche, Director

# Description of Industries and Summary of Findings

This report shows 1992 Census of Manufactures statistics for establishments classified in each of the following industries:

SIC code and title	
2011	Meat Packing Plants
2013	Sausages and Other Prepared Meats
2015	Poultry Slaughtering and Processing

The industry statistics (employment, payroll, cost of materials, value of shipments, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments but also their activities in the manufacture of secondary products as well as their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 through 5a) with product statistics (table 6) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5b, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Establishment data were tabulated based on industry definitions included in the *1987 Standard Industrial Classification (SIC) Manual*<sup>1</sup>. The 1987 edition represents a major revision for manufacturing industries from the 1972 edition and its 1977 supplement. In addition to the 1987 SIC revision, changes were made to the product class (five-digit) and product code (seven-digit) categories. The product class and product code comparability between the 1992 and 1987 censuses is shown in appendix C. This appendix presents, in tabular form, the linkage from 1992 to 1987, and 1987 to 1992.

All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

<sup>1</sup>*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

## INDUSTRY 2011, MEAT PACKING PLANTS

This industry is made up of establishments primarily engaged in the slaughtering, for their own account or on a contract basis for the trade, of cattle, hogs, sheep, lambs, and calves for meat to be sold or to be used on the same premises in canning, cooking, curing, and freezing, and in making sausage, lard, and other products. Also included in this industry are establishments primarily engaged in slaughtering horses for human consumption. Establishments primarily engaged in slaughtering, dressing, and packing poultry, rabbits, and other small game are classified in industry 2015; and those primarily engaged in slaughtering and processing animals not for human consumption are classified in industry 2048. Establishments primarily engaged in manufacturing sausages and meat specialties from purchased meats are classified in industry 2013; and establishments primarily engaged in canning meat for baby food are classified in industry 2032.

The 1992 definition of this industry is the same as that used in the 1987 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1992 Census of Manufactures, Industry 2011, Meat Packing Plants, had employment of 122.4 thousand. The employment figure was 7 percent above the 113.9 thousand reported in 1987. Compared with 1991, employment increased 1 percent. The 1991 data are based on the Census Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

The leading States in employment in 1992 were Iowa, Nebraska, Kansas, and Texas, accounting for approximately 45 percent of the industry's employment. These same States were the leaders in 1987 when they accounted for 40 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$50.4 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry in which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2011 shipped \$46.8 billion of meat products considered primary to the industry, \$1.3 billion of secondary products, and had \$2.4 billion of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped

by establishments in this industry was 97 percent (specialization ratio). In 1987, the specialization ratio was 98 percent.

Establishments in this industry also accounted for 99 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio was 100 percent.

The products primary to industry 2011, no matter in what industry they were produced, appear in table 6a and aggregate to \$46.8 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the meat packing industry amounted to \$43.6 billion. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with less than 20 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 5 percent of the total value of shipments.

## **INDUSTRY 2013, SAUSAGES AND OTHER PREPARED MEATS**

This industry is made up of establishments primarily engaged in manufacturing sausages, cured meats, smoked meats, canned meats, frozen meats, and other prepared meats and meat specialties, from purchased carcasses and other materials. Prepared meat plants operated by packing houses as separate establishments are also included in this industry. Establishments primarily engaged in canning or otherwise processing poultry, rabbits, and other small game are classified in industry 2015. Establishments primarily engaged in canning meat for baby food are classified in industry 2032. Establishments primarily engaged in cutting up and resale of purchased fresh carcasses, for the trade, (including boxed beef) are classified in wholesale trade, industry 5147.

The 1992 definition of this industry is the same as that used in the 1987 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1992 Census of Manufactures, Industry 2013, Sausages and Other Prepared Meats, had employment of 85.5 thousand. The employment figure was 9 percent above the 78.7 thousand reported in 1987. Compared with 1991, employment increased 7 percent. The 1991 data are based on the Census Bureau's annual survey of manufactures (ASM), which is a sample survey conducted each year between censuses.

The leading States in employment in 1992 were Wisconsin, Texas, Illinois, and California, accounting for approximately 29 percent of the industry's employment. These same States were the leaders in 1987 when they accounted for 30 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$20.0 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry in which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2013 shipped \$17.3 billion of sausages and prepared meats considered primary to the industry, \$880.8 million of secondary products, and had \$1.8 billion of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in this industry was 95 percent (specialization ratio). In 1987, the specialization ratio was 96 percent.

Establishments in this industry also accounted for 98 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio also was 98 percent.

The products primary to industry 2013, no matter in what industry they were produced, appear in table 6a and aggregate to \$17.7 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the sausage and prepared meats industry amounted to \$14.5 billion. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with less than 15 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 12 percent of the total value of shipments.

## **INDUSTRY 2015, POULTRY SLAUGHTERING AND PROCESSING**

This industry is made up of establishments primarily engaged in slaughtering, dressing, packing, freezing, and canning poultry, rabbits, and other small game, or in manufacturing products from such meats, for their own account or on a contract basis for the trade. This industry also includes the drying, freezing, and breaking of eggs. Establishments primarily engaged in cleaning, oil treating, packing, and grading of eggs are classified in wholesale trade, industry 5144; and those engaged in the cutting up and resale of purchased fresh carcasses are classified in wholesale and retail trade.

The 1992 definition of this industry is the same as that used in the 1987 Standard Industrial Classification (SIC) system. The SIC number and title also are the same.

In the 1992 Census of Manufactures, Industry 2015, Poultry Slaughtering and Processing, had employment of 193.8 thousand. The employment figure was 31 percent above the 147.9 thousand reported in 1987.

The leading States in employment in 1992 were Arkansas, Georgia, Alabama, and North Carolina, accounting for approximately 46 percent of the industry's employment. These same States were the leaders in 1987 when they accounted for 44 percent of the industry's employment.

The total value of shipments for establishments classified in this industry was \$23.8 billion.

Establishments in virtually all industries ship secondary products as well as products primary to the industry in which they are classified and have some miscellaneous receipts, such as resales and contract receipts. Industry 2015 shipped \$22.7 billion of poultry products considered primary to the industry, \$327.4 million of secondary products, and had \$721.1 million of miscellaneous receipts, resales, and contract work. Thus, the ratio of primary products to the total of both secondary and primary products shipped by establishments in this industry was 99 percent (specialization ratio). In 1987, the specialization ratio was 98 percent.

Establishments in this industry also accounted for 97 percent of products considered primary to the industry no matter where they were actually produced (coverage ratio). In 1987, the coverage ratio was 98 percent.

The products primary to industry 2015, no matter in what industry they were produced, appear in table 6a and aggregate to \$23.5 billion. For further explanation of specialization and coverage ratios, see table 5b and the appendixes.

The total cost of materials, services, and fuels and energy used by establishments classified in the poultry slaughtering and processing industry amounted to \$17.1 billion. Data on specific materials consumed appear in table 7.

Single-establishment companies in this industry with less than 15 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were obtained from administrative records of other agencies or developed from industry averages. These establishments accounted for 4 percent of the total value of shipments.

Table 2. Industry Statistics for Selected States: 1992 and 1987

[Excludes data for auxiliaries. States with 100 employees or more are shown. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

Industry and geographic area	1992											1987		
	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)	
	E1	Total (no.)	With 20 employees or more (no.)	Number <sup>2</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							
<b>INDUSTRY 2011, MEAT PACKING PLANTS</b>														
United States	-	1 387	431	122.4	2 452.8	105.5	228.5	1 956.6	6 928.0	43 586.4	50 434.4	343.2	113.9	5 266.9
Alabama	E5	26	5	.7	12.0	.5	.8	6.6	47.0	71.6	118.0	(D)	1.0	30.5
Arizona	-	12	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7	(D)	
Arkansas	-	22	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
California	E4	73	27	3.5	79.9	2.9	6.6	61.2	156.1	1 181.6	1 338.9	27.4	3.3	162.0
Colorado	E1	40	12	5.1	100.4	4.5	9.9	90.2	266.8	2 558.0	2 809.6	14.5	H	(D)
Florida	E4	24	10	.4	6.9	.3	.7	4.8	8.3	75.7	84.1	.5	.8	15.1
Georgia	E1	35	13	2.1	37.5	1.6	3.5	25.2	69.8	396.8	468.5	4.6	2.2	58.8
Hawaii	E6	6	2	.2	3.3	.1	.3	2.5	4.3	19.2	23.5	(D)	.2	6.6
Idaho	-	13	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	46.5
Illinois	-	82	28	7.0	137.9	6.2	13.1	113.0	317.6	2 313.1	2 623.9	8.4	5.7	266.4
Indiana	E1	42	15	3.4	68.0	2.9	5.6	52.7	103.7	726.3	829.6	6.3	H	(D)
Iowa	-	63	30	16.9	340.8	14.9	33.3	285.1	918.1	5 198.7	6 111.8	29.8	12.8	582.9
Kansas	-	44	14	12.3	221.2	11.3	24.1	192.9	446.3	5 819.0	6 254.2	14.8	10.8	518.0
Kentucky	E1	28	11	2.2	47.1	1.7	3.5	31.8	84.6	440.5	522.4	3.1	H	(D)
Louisiana	E3	17	6	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	C	(D)
Maryland	E1	11	4	.3	4.7	.2	.5	3.5	9.0	48.0	57.0	(D)	.3	9.4
Michigan	-	46	14	2.3	46.8	2.0	4.4	38.0	104.0	726.2	829.2	(D)	1.9	92.5
Minnesota	-	30	10	5.6	112.1	4.2	8.6	88.1	671.1	1 898.2	2 566.9	10.3	4.9	513.0
Mississippi	-	25	6	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5	137.6	
Missouri	-	49	6	1.7	30.4	1.4	3.2	25.1	32.6	434.2	463.4	2.0	1.8	82.6
Montana	E7	23	2	.1	1.5	.1	.2	1.1	1.9	14.5	16.4	(D)	(NA)	(NA)
Nebraska	-	48	22	13.7	276.6	12.3	27.3	236.2	1 192.2	7 172.0	8 345.8	16.3	9.8	512.2
New Jersey	E1	14	5	.3	8.2	.3	.5	5.8	17.3	58.6	76.2	.3	E	(D)
New Mexico	E6	10	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	F	(D)
New York	E3	41	5	.4	6.6	.3	.6	4.9	17.5	73.0	90.8	.6	.8	27.1
North Carolina	E1	32	15	2.9	56.4	2.3	4.8	42.2	120.1	520.6	639.5	(D)	2.6	75.3
North Dakota	-	10	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)	
Ohio	-	57	19	2.8	70.0	1.9	4.3	46.4	166.8	601.8	770.3	10.2	H	(D)
Oklahoma	E5	42	7	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	19.9	
Oregon	-	20	4	.3	7.1	.2	.5	5.1	14.0	65.3	79.7	(D)	.5	27.3
Pennsylvania	-	68	27	4.3	108.5	3.5	7.3	77.6	219.1	1 423.2	1 642.4	24.1	3.6	161.5
South Carolina	E1	27	8	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	31.6
South Dakota	-	16	6	3.8	77.4	3.5	7.3	69.1	286.4	981.9	1 266.3	4.1	H	(D)
Tennessee	E8	26	6	1.0	18.6	.7	1.6	12.4	79.4	171.0	250.2	2.7	2.5	101.4
Texas	-	109	32	11.9	221.4	10.7	24.0	188.1	551.5	5 158.8	5 700.5	33.9	12.7	253.4
Utah	-	17	4	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
Virginia	-	22	6	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	4.5	210.5
Washington	-	23	7	1.9	35.8	1.7	3.7	29.9	75.6	1 051.7	1 131.0	(D)	2.0	79.5
West Virginia	E4	16	2	.1	1.4	.1	.2	1.1	1.2	8.8	10.0	.1	C	(D)
Wisconsin	E1	46	16	3.1	67.7	2.7	5.3	48.8	298.6	1 282.7	1 584.2	7.7	3.2	191.8
<b>INDUSTRY 2013, SAUSAGES AND OTHER PREPARED MEATS</b>														
United States	E1	1 264	623	85.5	2 026.3	65.7	139.9	1 353.3	5 491.3	14 455.0	19 972.4	379.7	78.7	4 457.0
Alabama	E6	12	4	.7	11.9	.5	1.1	7.9	22.1	60.5	82.2	(D)	.6	14.9
Arkansas	-	6	4	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)	
California	E1	129	63	5.5	136.4	4.1	8.5	85.8	462.9	914.7	1 382.3	19.2	6.3	370.3
Connecticut	E3	15	7	.3	8.6	.2	.5	4.4	19.6	37.6	57.2	(D)	.6	30.3
Delaware	-	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)	
Florida	-	33	14	2.4	52.0	1.8	3.9	36.5	111.0	379.8	491.1	9.5	2.3	137.9
Georgia	E2	96	14	2.7	54.4	2.1	4.9	39.4	143.5	392.9	536.1	9.0	2.6	101.7
Hawaii	E5	15	4	.2	3.5	.2	.3	2.0	7.8	17.4	25.3	.5	C	(D)
Idaho	-	5	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)	
Illinois	E1	85	48	5.7	160.3	4.3	9.5	106.5	442.6	912.6	1 362.4	39.2	5.9	362.3
Indiana	E3	19	8	1.6	37.1	1.2	2.3	24.2	110.8	340.8	451.4	5.6	1.4	54.7
Iowa	-	29	17	4.3	119.2	3.6	7.9	93.6	281.3	1 028.7	1 305.7	29.6	3.5	275.4
Kansas	-	23	13	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)	
Kentucky	E1	21	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)	
Louisiana	-	25	6	.5	11.0	.4	.8	5.6	22.4	95.3	118.0	(D)	.7	29.7
Maine	E5	7	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)	
Maryland	-	20	9	1.9	23.9	1.1	1.9	17.7	62.6	116.9	179.4	(D)	1.4	76.0
Massachusetts	E1	31	13	1.4	34.7	.8	1.8	18.1	72.6	211.3	285.6	3.6	G	(D)
Michigan	-	40	25	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10.0	3.6	199.1
Minnesota	-	22	12	1.6	32.2	1.3	2.3	19.0	65.8	262.7	390.8	4.4	1.2	39.9
Mississippi	E5	11	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	14.5	
Missouri	-	32	16	2.5	53.1	2.1	4.6	39.4	102.1	401.2	503.7	19.4	1.7	101.7
Montana	E1	9	2	.2	3.4	.1	.3	2.5	8.1	14.3	22.3	(D)	C	(D)
Nebraska	E1	30	19	2.3	44.1	1.9	4.1	30.5	84.5	358.3	442.8	4.7	1.9	70.8
New Hampshire	-	4	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)	
New Jersey	E2	41	21	2.1	63.2	1.6	3.5	37.7	145.3	328.6	469.8	5.4	2.0	123.7
New Mexico	-	4	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)		
New York	E2	88	32	2.2	65.9	1.6	3.3	39.2	151.6	385.4	536.5	8.1	3.5	201.8
North Carolina	-	48	26	3.0	52.6	2.4	4.9	38.0	152.9	394.0	539.2	(D)	2.3	82.7
North Dakota	-	5	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)	
Ohio	-	41	26	3.7	85.3	3.0	6.7	60.8	179.0	731.8	913.6	15.7	3.1	176.2
Oklahoma	E2	13	6	1.2	28.7	.9	2.1	18.2	73.2	265.7	338.4	8.8	G	(D)
Oregon	-	21	11	1.4	30.2	1.0	2.1	15.6	103.7	129.0	233.4	4.0	1.1	71.0
Pennsylvania	E1	75	49	4.8	120.7	3.5	7.4	73.8	340.3	938.4	1 287.1	14.2	5.0	290.8

See footnotes at end of table.

Table 2. Industry Statistics for Selected States: 1992 and 1987—Con.

[Excludes data for auxiliaries. States with 100 employees or more are shown. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes.]

Industry and geographic area	1992										1987		
	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees <sup>2</sup> (1,000)	Value added by manufacture (million dollars)
	E1	Total (no.)	With 20 employees or more (no.)	Number <sup>2</sup> (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)						
<b>INDUSTRY 2013, SAUSAGES AND OTHER PREPARED MEATS—Con.</b>													
Rhode Island	—	8	1	.1	2.9	.1	.2	2.5	8.0	15.3	23.2	.6	(NA) 23.2
South Carolina	—	9	4	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	(D)
South Dakota	—	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	178.6
Tennessee	—	25	13	1.8	42.0	1.2	2.7	26.2	133.1	259.0	398.2	3.1	2.9
Texas	—	81	46	6.6	157.0	4.9	11.0	98.6	335.0	1 325.3	1 661.4	34.4	5.3
Utah	—	7	3	.2	4.6	.2	.4	2.9	15.2	76.4	91.4	.4	C (D)
Virginia	E4	25	14	H	(D)	(D)	(D)	(D)	(D)	79.3	131.9	5.7	1.2
Washington	—	19	10	.9	21.1	.7	1.5	13.0	133.7	798.1	2 153.1	4.8	1.1
Wisconsin	—	43	24	6.7	189.6	5.2	11.2	133.7	1 359.2	1 359.2	30.5	6.4	568.9
<b>INDUSTRY 2015, POULTRY SLAUGHTERING AND PROCESSING</b>													
United States	—	591	432	193.8	3 091.5	172.8	341.5	2 518.4	6 656.5	17 066.7	23 757.1	466.4	147.9
Alabama	—	37	32	20.1	277.2	18.2	33.9	234.3	538.4	1 471.1	2 001.8	35.6	11.2
Arkansas	—	47	44	29.1	451.7	26.4	54.3	382.6	912.6	2 740.7	3 655.4	80.6	23.4
California	—	41	29	8.9	158.8	8.0	14.5	130.2	281.4	845.5	1 129.8	9.4	5.6
Colorado	E9	5	4	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F (D)	
Delaware	—	8	8	5.1	76.3	4.7	8.4	61.3	149.5	444.5	593.4	16.2	4.5
Florida	—	16	7	2.9	45.7	2.2	4.4	34.0	29.6	245.6	275.0	18.3	2.5
Georgia	—	49	44	21.2	331.2	19.0	36.7	273.6	686.6	1 616.6	2 298.0	50.4	16.0
Illinois	E3	11	6	1.3	30.1	1.1	1.9	18.8	88.1	114.6	201.9	2.8	1.6
Indiana	—	11	10	2.7	42.2	2.2	4.4	30.6	116.3	203.1	323.9	6.3	G (D)
Iowa	—	19	14	3.1	55.7	2.8	5.6	47.2	150.9	388.2	542.6	5.1	3.0
Kentucky	—	4	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C (D)	
Louisiana	—	5	3	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E (D)	
Maine	E2	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Maryland	—	10	7	3.3	54.8	2.9	6.3	40.1	104.3	300.4	404.0	8.0	3.6
Massachusetts	E2	4	3	.4	6.4	.4	.7	5.1	11.6	34.1	45.6	.8	(D)
Michigan	—	10	4	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	93.7
Minnesota	—	27	16	6.5	108.5	5.9	11.8	91.7	233.2	560.2	811.6	11.6	7.0
Mississippi	E1	26	24	11.1	148.7	9.9	19.1	118.6	309.4	843.3	1 152.6	22.5	6.2
Missouri	—	29	25	8.5	130.1	7.7	14.6	108.9	356.8	791.9	1 149.1	25.7	5.6
Nebraska	—	7	6	1.8	40.7	1.5	3.1	30.7	27.3	141.4	179.5	8.6	1.6
New Jersey	E3	16	11	2.2	39.7	1.8	3.8	27.6	85.3	267.2	351.5	6.8	G (D)
New York	E2	21	6	.6	10.3	.5	1.0	9.4	23.1	38.4	61.0	.8	22.4
North Carolina	E1	29	25	18.2	259.4	16.8	32.3	219.9	662.0	1 547.2	2 206.5	35.6	14.9
Ohio	E1	19	12	1.4	22.5	1.2	2.6	17.8	53.3	146.2	200.1	2.4	(D)
Oklahoma	—	6	3	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G (D)	
Oregon	—	6	5	1.0	18.6	.8	1.8	16.2	25.0	72.3	97.7	.6	20.0
Pennsylvania	E1	28	21	5.4	101.4	4.3	6.6	74.9	170.2	549.2	719.2	8.4	5.6
South Carolina	—	12	5	1.8	30.0	1.6	3.4	25.4	118.7	153.4	274.0	4.4	70.6
South Dakota	E2	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E (D)	
Tennessee	—	11	9	4.1	68.9	3.7	7.8	57.6	161.3	456.9	621.5	5.9	2.0
Texas	—	20	15	9.3	153.3	8.4	17.9	131.3	238.6	899.1	1 146.3	20.2	5.6
Utah	—	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E (D)	
Virginia	—	17	12	9.2	156.0	8.1	17.1	125.0	382.4	934.5	1 315.9	15.2	8.4
Washington	E5	8	4	.9	20.1	.7	1.7	15.2	28.7	111.4	139.7	(D)	13.7
West Virginia	—	3	2	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F (D)	
Wisconsin	E2	9	7	2.6	51.7	2.0	3.7	30.6	92.4	222.7	319.1	15.9	2.2

Note: For qualifications of data, see footnotes on table 1a.

<sup>1</sup>Payroll and sales data for some small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other Government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown for those States where estimated value of shipments data based on administrative-record data account for 10 percent or more of figure shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

<sup>2</sup>Statistics for some producing States have been withheld to avoid disclosing data for individual companies. However, for States with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees; J—10,000 to 24,999 employees; K—25,000 to 49,999 employees; L—50,000 to 99,999 employees; M—100,000 employees or more.

### Table 3c. Supplemental Industry Statistics Based on Sample Estimates: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Meat packing plants (SIC 2011)		Sausages and other prepared meats (SIC 2013)		Poultry slaughtering and processing (SIC 2015)	
	Amount (million dollars)	Relative standard error of estimate <sup>1</sup> (percent)	Amount (million dollars)	Relative standard error of estimate <sup>1</sup> (percent)	Amount (million dollars)	Relative standard error of estimate <sup>1</sup> (percent)
Purchased services:						
Cost of purchased services for the repair of—						
Buildings and other structures	27.4	(X)	26.7	(X)	31.0	(X)
Response coverage ratio (percent) <sup>2</sup>	76.8	(X)	81.7	(X)	83.9	(X)
Machinery	180.5	(X)	147.3	(X)	204.0	(X)
Response coverage ratio (percent) <sup>2</sup>	82.9	(X)	82.1	(X)	85.1	(X)
Other purchased services:						
Communications	18.2	(X)	19.5	(X)	14.5	(X)
Response coverage ratio (percent) <sup>2</sup>	83.0	(X)	77.0	(X)	82.6	(X)
Legal	8.2	(X)	10.1	(X)	12.0	(X)
Response coverage ratio (percent) <sup>2</sup>	62.8	(X)	80.3	(X)	81.4	(X)
Accounting and bookkeeping	5.2	(X)	11.3	(X)	5.8	(X)
Response coverage ratio (percent) <sup>2</sup>	77.1	(X)	80.4	(X)	79.4	(X)
Advertising	121.6	(X)	179.7	(X)	80.1	(X)
Response coverage ratio (percent) <sup>2</sup>	80.8	(X)	80.8	(X)	81.3	(X)
Software and other data processing	5.4	(X)	7.7	(X)	3.1	(X)
Response coverage ratio (percent) <sup>2</sup>	75.7	(X)	80.0	(X)	79.8	(X)
Refuse removal, including hazardous waste	88.1	(X)	15.2	(X)	69.3	(X)
Response coverage ratio (percent) <sup>2</sup>	80.0	(X)	81.3	(X)	85.7	(X)
New machinery and equipment expenditures	270.4	(X)	283.0	(X)	349.5	(X)
Automobiles, trucks, etc., for highway use	4.9	25	5.5	14	14.6	4
Computers and peripheral data processing equipment	6.1	3	6.3	6	5.0	1
All other	207.9	1	174.8	1	329.9	1
Adjustment ratio <sup>3</sup>	1.2	(X)	1.3	(X)	1.2	(X)
Cost of materials, components, parts, etc., used	41 036.4	(X)	12 723.5	(X)	16 174.6	(X)
Materials purchased or transferred from foreign sources <sup>4</sup>	116.7	16	640.6	13	8.0	2
Materials purchased or transferred from domestic sources	40 919.7	1	12 082.9	1	16 166.5	1
Adjustment ratio <sup>3</sup>	1.4	(X)	1.4	(X)	1.4	(X)

Note: The amounts shown for purchased services reflect only those services that establishments purchase from other companies. Amounts purchased by separate central administrative offices and services provided to establishments by central administrative offices are excluded.

<sup>1</sup>For description of relative standard error of estimate, see Qualifications of the Data in appendixes.

<sup>2</sup>A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight, see appendix B) for those ASM establishments that reported to the weighted total employment for all ASM establishments classified in the industry.

<sup>3</sup>Detail has been adjusted upwards to account for nonresponse. Inverse of the ratio shown represents a measure of the response of the inquiry. (See appendixes for further explanation.)

<sup>4</sup>Data may understate the true cost of imported parts, components, and supplies since some respondents do not know the origin of these materials. Includes cases where materials were purchased from secondary suppliers or where they were transferred from company-operated warehouses or other distribution points. Direct purchases from foreign suppliers and importers by domestic manufacturing establishments are believed to be reported accurately.

### Table 4. Industry Statistics by Employment Size of Establishment: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and employment size class	E1	All establish- ments (no.)	All employees		Production workers		Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expend- itures (million dollars)	End-of- year inven- tories (million dollars)	
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)						
<b>INDUSTRY 2011, MEAT PACKING PLANTS</b>												
Total	—	1 387	122.4	2 452.8	105.5	228.5	1 956.6	6 928.0	43 586.4	50 434.4	343.2	1 054.3
Establishments with an average of—												
1 to 4 employees	E6	519	.9	14.0	.8	1.5	10.6	26.6	198.0	224.7	1.4	4.1
5 to 9 employees	E5	256	1.7	23.6	1.4	2.7	18.2	42.5	261.2	303.4	2.3	8.1
10 to 19 employees	E3	181	2.5	40.6	2.1	4.2	31.4	70.4	276.3	497.7	3.5	10.6
20 to 49 employees	E3	183	5.6	95.4	4.4	9.0	69.2	182.5	1 031.8	1 215.6	8.0	23.8
50 to 99 employees	E1	84	6.2	125.8	4.9	10.3	89.7	276.3	1 758.7	2 034.2	12.9	47.7
100 to 249 employees	E2	69	10.8	220.1	9.0	19.0	166.6	477.5	4 881.7	5 363.6	35.0	118.7
250 to 499 employees	E1	35	12.1	245.2	9.9	20.8	176.0	669.3	4 802.9	5 473.6	122.8	94.9
500 to 999 employees	—	20	14.6	307.9	12.5	27.5	240.9	888.9	4 424.6	5 300.8	22.0	123.2
1,000 to 2,499 employees	—	36	68.0	1 380.1	60.4	133.4	1 153.9	4 294.1	25 800.3	30 020.8	135.2	623.2
2,500 employees or more	—	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records <sup>2</sup>	E9	618	2.2	28.7	1.9	3.6	22.2	24.9	178.2	203.2	1.6	4.1
<b>INDUSTRY 2013, SAUSAGES AND OTHER PREPARED MEATS</b>												
Total	E1	1 264	85.5	2 026.3	65.7	139.9	1 353.3	5 491.3	14 455.0	19 972.4	379.7	1 058.1
Establishments with an average of—												
1 to 4 employees	E8	271	.5	8.5	.4	.7	5.6	21.9	62.9	84.7	1.2	4.9
5 to 9 employees	E7	189	1.3	20.0	1.0	1.9	12.6	51.1	136.8	188.0	2.4	10.0
10 to 19 employees	E4	181	2.5	46.9	1.8	3.7	28.9	120.2	293.3	411.9	8.1	26.4
20 to 49 employees	E1	235	7.5	172.9	5.4	10.7	99.1	409.0	1 117.8	1 532.5	20.3	86.1
50 to 99 employees	E1	150	10.7	236.4	7.9	16.2	148.0	713.2	1 536.5	2 253.5	45.2	129.0
100 to 249 employees	—	148	24.0	581.3	18.4	39.4	366.5	1 722.7	4 528.4	6 247.7	103.3	338.4
250 to 499 employees	E1	71	24.7	589.0	19.3	42.3	407.2	1 589.5	4 392.8	5 996.9	121.8	302.2
500 to 999 employees	—	15	14.3	371.3	11.6	25.0	285.4	863.7	2 386.5	3 257.3	77.3	161.1
1,000 to 2,499 employees	—	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records <sup>2</sup>	E9	362	1.3	16.4	1.0	1.8	10.6	37.0	106.4	143.4	2.1	7.9

See footnotes at end of table.

Table 4. Industry Statistics by Employment Size of Establishment: 1992—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and employment size class	E <sup>1</sup>	All establish- ments (no.)	All employees		Production workers			Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expend- itures (million dollars)	End-of- year invento- ries (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
<b>INDUSTRY 2015, POULTRY SLAUGHTERING AND PROCESSING</b>												
Total	—	591	193.8	3 091.5	172.8	341.5	2 518.4	6 656.5	17 066.7	23 757.1	466.4	832.3
Establishments with an average of—												
1 to 4 employees	E5	85	.1	2.5	.1	.3	2.0	5.2	15.8	21.1	.3	.5
5 to 9 employees	E7	36	.2	3.5	.2	.4	2.7	15.4	21.0	36.4	.8	1.0
10 to 19 employees	E3	38	.5	7.9	.5	.9	6.2	21.8	49.4	71.0	1.2	2.5
20 to 49 employees	E1	66	2.3	38.1	1.9	3.6	29.3	127.4	314.5	443.0	10.4	28.3
50 to 99 employees	—	42	3.0	50.3	2.6	4.8	39.7	160.3	346.3	505.7	14.0	25.2
100 to 249 employees	E1	82	13.6	224.4	11.7	23.8	170.3	537.5	1 399.2	1 955.8	52.2	97.3
250 to 499 employees	E1	87	31.7	522.7	27.8	56.3	412.6	1 133.0	3 081.8	4 216.6	77.2	153.0
500 to 999 employees	—	101	71.4	1 108.4	63.7	122.6	905.5	2 044.9	6 250.6	8 287.5	152.8	265.0
1,000 to 2,499 employees	—	54	71.0	1 133.7	64.2	128.8	951.1	2 611.0	5 588.1	8 220.0	157.5	259.5
Covered by administrative records <sup>2</sup>	E9	94	.3	3.7	.3	.5	3.0	8.4	20.3	28.7	.7	1.1

Note: For qualifications of data, see footnotes on table 1a. Data shown as (D) are included in underscored figures above.

<sup>1</sup>Payroll and sales data for some small single-establishment manufacturing companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other Government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown for those employment-size categories where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

<sup>2</sup>Report forms were not mailed to small single-establishment companies with up to 20 employees (cutoff varied by industry). Payroll and sales data for 1992 were obtained from administrative records supplied by other agencies of the Federal Government. Those data were then used in conjunction with industry averages to estimate the items shown. Data are also included in respective employment-size classes shown.

Table 5a. Industry Statistics by Industry and Primary Product Class Specialization: 1992

[Table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. Measures of plant specialization shown are (1) industry specialization: ratio of primary product shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment; and (2) product class specialization: ratio of largest primary product class shipments to total product shipments (primary plus secondary, excluding miscellaneous receipts) for the establishment. See appendix for method of computing ratios. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry or product class code	Industry or primary product class	All establish- ments (number)	All employees		Production workers			Value added by manufac- ture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expend- itures (million dollars)	
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
<b>2011 Meat packing plants:</b>												
	All establishments in industry	1 387	122.4	2 452.8	105.5	228.5	1 956.6	6 928.0	43 586.4	50 434.4	343.2	
	Establishments with this product class primary:											
20111	Beef, not canned or made into sausage	162	56.3	1 085.3	50.0	110.3	907.9	2 985.4	28 725.7	31 652.1	121.9	
20112	Veal, not canned or made into sausage	11	.7	18.9	.6	1.3	12.4	32.5	248.0	284.3	1.3	
20113	Lamb and mutton, not canned or made into sausage	10	.7	13.1	.6	1.3	10.6	46.5	277.7	323.3	.6	
20114	Pork, not canned or made into sausage	74	37.8	812.5	32.8	71.3	656.4	1 908.9	9 453.0	11 345.2	159.2	
20116	Pork, processed or cured (not canned or made into sausage)	12	7.8	175.3	6.6	14.1	117.8	696.7	1 350.6	2 039.6	14.6	
20117	Sausages and similar products (not canned)	36	4.4	87.7	3.2	6.3	53.6	375.6	502.4	876.3	18.0	
20118	Canned meats (except dog, cat, and baby food)	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
20119	Hides, skins, and pelts	7	.3	7.9	.3	.5	4.2	10.3	96.5	107.0	106.5	
2011B	Miscellaneous byproducts of meat packing plants	11	.5	8.8	.4	.8	6.8	19.6	86.2	106.5	.4	
<b>2013 Sausages and other prepared meats:</b>												
	All establishments in industry	1 264	85.5	2 026.3	65.7	139.9	1 353.3	5 491.3	14 455.0	19 972.4	379.7	
	Establishments with this product class primary:											
20136	Pork, processed or cured, including frozen, not canned or made into sausage	121	19.1	453.2	15.1	32.1	310.4	1 109.1	3 137.1	4 249.4	81.0	
20137	Sausage and similar products, not canned	269	31.9	815.5	24.1	51.8	551.0	2 102.3	4 668.6	6 784.8	132.8	
20138	Canned meats (except dog, cat, and baby food), containing 20 percent or more meat	20	2.8	67.6	2.3	4.5	49.8	380.0	547.8	919.9	15.3	
2013B	Other processed, frozen, or cooked meats	177	21.7	492.2	16.8	36.7	316.8	1 424.7	4 724.3	6 165.4	101.5	
<b>2015 Poultry slaughtering and processing:</b>												
	All establishments in industry	591	193.8	3 091.5	172.8	341.5	2 518.4	6 656.5	17 066.7	23 757.1	466.4	
	Establishments with this product class primary:											
20151	Young chickens (usually under 20 weeks of age)	179	115.0	1 726.7	103.8	205.1	1 448.3	3 238.1	9 439.8	12 671.3	249.4	
20152	whole or parts	10	1.5	20.5	1.4	2.8	15.1	37.0	58.6	95.8	2.2	
20153	Hens and/or fowl (including frozen whole or parts)	38	21.2	348.1	18.7	37.1	276.8	702.1	2 160.7	2 877.8	48.4	
20154	Turkeys (including frozen, whole or parts)	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
20155	Other poultry and small game (including frozen, whole or parts)	101	41.1	741.6	36.0	71.4	585.7	2 076.1	4 149.7	6 237.7	116.4	
20159	Processed poultry and small game (except soups) containing 20 percent or more poultry or meat	35	3.8	81.3	3.1	6.3	56.5	198.7	518.0	725.6	24.1	

Note: For qualifications of data, see footnotes on table 1a.